



# National Weather Service

## Storm Data and Unusual Weather Phenomena



June 1998

Location	Date	Time Local/ Standard	Path Length (Miles)	Path Width (Yards)	Number of Persons		Estimated Damage	Property		Character of Storm
					Killed	Injured	Crops			
<b><u>MINNESOTA, Central and South Central</u></b>										
<b>Douglas County</b>										
Alexandria	01	2020CST			0	0				Thunderstorm Wind (50)
										Trees and power lines blown down. Estimated windspeed.
<b>Todd County</b>										
Eagle Bend	11	0045CST			0	0				Hail(0.88)
<b>Swift County</b>										
1.5 E Benson to 4 E Benson	11	1530CST 1534CST	2.5	50	0	0				Tornado (F0)
										Crossed open fields.
<b>Kandiyohi County</b>										
.2 S Raymond	11	1645CST			0	0				Funnel Cloud
<b>Lac Qui Parle County</b>										
4 N Providence	11	1805CST 1810CST			0	0				Hail(0.75)
										Hailed for 10 minutes.
<b>Redwood County</b>										
3 NW Wabasso	11	1805CST			0	0				Hail(0.75)
<b>Lac Qui Parle County</b>										
4 E Providence	11	1810CST			0	0				Hail(1.00)
<b>Yellow Medicine County</b>										
1 NE Clarkfield	11	1810CST 1820CST			0	0				Hail(0.75)
										Hailed for 10 minutes.
<b>Kandiyohi County</b>										
Willmar	11	1850CST			0	0				Hail(1.25)
<b>Freeborn County</b>										
4.5 W Clarks Grove to 3 WSW Clarks Grove	15	1445CST	2.5	50	0	0				Tornado (F0)
										Remained over farm fields. Crop damage.
<b>Morrison County</b>										
1 N Freedhem to Freedhem	15	1553CST			0	0				Thunderstorm Wind (50)
										Trees blown down. Estimated windspeed.
<b>Washington County</b>										
Woodbury	15	1950CST			0	0				Hail(0.75)
<b>Isanti County</b>										
Isanti	15	2010CST			0	0				Hail(0.75)
<b>Freeborn County</b>										
4 W Albert Lea	16	1400CST	0.5	50	0	0				Tornado (F0)
										Remained in rural areas.
<b>Ramsey County</b>										
St Paul	16	1532CST			0	0				Hail(1.00)
<b>Ramsey County</b>										
St Paul	16	1648CST			0	0				Hail(0.75)
<b>Anoka County</b>										
Circle Pines	16	1700CST 1705CST			0	0				Hail(0.75)
<b>Carver County</b>										
New Germany	18	1245CST			0	0				Thunderstorm Wind (50)
										Trees blown down. Estimated windspeed.



# National Weather Service

## Storm Data and Unusual Weather Phenomena



June 1998

June 1998								
Location	Date	Time Local/ Standard	Path Length (Miles)	Path Width (Yards)	Number of Persons		Estimated Damage	Character of Storm
					Killed	Injured	Property Crops	
<b><u>MINNESOTA, Central and South Central</u></b>								
Chippewa County								
8 N Clara City	18	1448CST			0	0		Funnel Cloud
Redwood County								
3 NW Clements to 5 N Clements	18	1455CST 1458CST	2.5	30	0	0		Tornado (F1)
		5 barns damaged. One roof ripped from a barn.						
Renville County								
4 S Danube	18	1500CST	0.1	25	0	0		Tornado (F0)
		Brief touchdown in field.						
Redwood County								
2 S Redwood Falls	18	1507CST	0.1	25	0	0		Tornado (F0)
Renville County								
Olivia	18	1518CST	0.2	50	0	0	1M	Tornado (F1)
		Construction company building and recycling center destroyed. Department of Transportation building damaged. Vehicles damaged at dealership.						
Pope County								
Cyrus	18	1540CST			0	0		Thunderstorm Wind (50)
		Large tree limbs blown down. Estimated windspeed.						
Kandiyohi County								
Willmar	18	1550CST			0	0		Hail(0.75)
Stevens County								
Chokio	18	1906CST			0	0		Hail(0.75)
Renville County								
Olivia	18	1917CST			0	0		Hail(0.75)
Renville County								
2 S Bird Island	18	1945CST			0	0		Hail(1.75)
Meeker County								
2 SW Cosmos	18	2007CST			0	0		Funnel Cloud
Meeker County								
2 SE Cosmos to Cosmos	18	2020CST			0	0		Hail(0.75)
		Hailed for 10 minutes.						
Martin County								
Trimont	20	0828CST			0	0		Hail(0.75)
Brown County								
Sleepy Eye	20	0840CST			0	0		Thunderstorm Wind (56)
Watonwan County								
St James	20	0844CST 0944CST			0	0		Hail(1.75)
Watonwan County								
Ormsby	20	0910CST			0	0		Hail(0.75)
Watonwan County								
South Branch	20	0920CST			0	0		Hail(0.75)
Martin County								
Truman	20	1008CST			0	0		Hail(0.75)
Faribault County								
Blue Earth	20	1030CST 1230CST			0	0		Flash Flood
		Between 3 and 4 inches of rain resulted in street flooding.						



# National Weather Service

## Storm Data and Unusual Weather Phenomena



June 1998

Location	Date	Time Local/ Standard	Path Length (Miles)	Path Width (Yards)	Number of Persons Killed	Number of Persons Injured	Estimated Damage Property	Estimated Damage Crops	Character of Storm
<b><u>MINNESOTA, Central and South Central</u></b>									
Faribault County Winnebago	20	1030CST			0	0			Hail(1.75)
Faribault County Wells	20	1114CST			0	0			Thunderstorm Wind (50)
			Large tree limbs blown down. Estimated windspeed.						
Blue Earth County Vernon Center	20	1120CST			0	0			Hail(0.88)
Freeborn County Manchester	20	1135CST			0	0			Thunderstorm Wind (52)
			Marble size hail along with strong winds						
Freeborn County 5 E Manchester	20	1140CST			0	0			Hail(1.00)
Freeborn County 5 ENE Manchester	20	1145CST			0	0			Hail(1.75)
Freeborn County Maple Is	20	1150CST			0	0			Thunderstorm Wind (50)
			Large trees limbs down. Estimated windspeed.						
Steele County Blooming Prairie	20	1225CST			0	0			Hail(0.75)
Mcleod County 2 W Winsted	23	2115CST			0	0			Hail(1.00)
			Large branches down with some crop damage.						
Wright County 3 SE Rice Lake	23	2115CST 2130CST			0	0			Hail(1.00)
Wright County 3 S Waverly	23	2210CST			0	0			Hail(1.25)
Dakota County South St Paul	24	0036CST 0236CST			0	0			Thunderstorm Wind (50)
			Estimated windspeed.						
Le Sueur County Montgomery	24	2045CST			0	0			Hail(0.75)
Redwood County Walnut Grove	24	2145CST			0	0			Thunderstorm Wind (61)
Redwood County Vesta	24	2150CST			0	0			Thunderstorm Wind (50)
			Trees blown down. Estimated windspeed.						
Yellow Medicine County Wood Lake	24	2217CST			0	0			Thunderstorm Wind (52)
Redwood County Redwood Falls Arpt	24	2220CST			0	0			Thunderstorm Wind (55)
Redwood County Lamberton	24	2230CST			0	0			Thunderstorm Wind (61)
			Trees blown down.						
Renville County Sacred Heart	24	2230CST			0	0			Thunderstorm Wind (55)
			Ballpark damaged. Trees uprooted and power lines down. Estimated windspeed						



# National Weather Service

## Storm Data and Unusual Weather Phenomena



June 1998

Location	Date	Time Local/ Standard	Path Length (Miles)	Path Width (Yards)	Number of Persons Killed	Number of Persons Injured	Estimated Damage Property	Estimated Damage Crops	Character of Storm
<b><u>MINNESOTA, Central and South Central</u></b>									
<b>Sibley County</b>									
Gaylord	24	2300CST			0	0			Thunderstorm Wind (50)
			Power lines down. Estimated windspeed.						
<b>Brown County</b>									
New Ulm Arpt	24	2302CST			0	0			Thunderstorm Wind (50)
			Trees down in New Ulm. Trailers blown over.						
<b>Chippewa County</b>									
Clara City	24	2304CST			0	0	250K		Thunderstorm Wind (61)
			Chimney blown through roof of grocery store. Trees down.						
<b>Kandiyohi County</b>									
6 N Raymond	24	2305CST			0	0	5K		Thunderstorm Wind (55)
			Mobile home damaged.						
<b>Renville County</b>									
Hector	24	2306CST			0	0			Thunderstorm Wind (55)
			Power lines down. Estimated windspeed.						
<b>Mcleod County</b>									
Brownton	24	2330CST			0	0			Thunderstorm Wind (50)
			Power pole blown down. Estimated windspeed.						
<b>Nicollet County</b>									
Nicollet	24	2330CST			0	0			Thunderstorm Wind (50)
			Trees and large branches down. Estimated windspeed.						
<b>Scott County</b>									
Belle Plaine	24	2330CST			0	0			Thunderstorm Wind (61)
<b>Wright County</b>									
Buffalo	24	2330CST			0	0			Thunderstorm Wind (55)
			Large tree blown down. Estimated windspeed.						
<b>Nicollet County</b>									
St Peter	24	2332CST			0	0			Thunderstorm Wind (55)
			Crops damaged. Estimated windspeed.						
<b>Carver County</b>									
2 S Watertown	24	2334CST			0	0			Thunderstorm Wind (55)
			Large tree blown down. Estimated windspeed.						
<b>Le Sueur County</b>									
New Prague	24	2334CST			0	0			Thunderstorm Wind (61)
<b>Scott County</b>									
Jordan	24	2334CST			0	0			Thunderstorm Wind (61)
<b>Blue Earth County</b>									
Mankato	24	2338CST			0	0			Thunderstorm Wind (55)
			Large branches down. Estimated windspeed.						
<b>Carver County</b>									
Chaska	24	2345CST			0	0			Thunderstorm Wind (50)
			Trees blown down. Estimated windspeed.						
<b>Hennepin County</b>									
Eden Prairie	24	2355CST			0	0			Thunderstorm Wind (52)
<b>Hennepin County</b>									
Orono	24	2357CST			0	0			Thunderstorm Wind (52)
<b>Hennepin County</b>									
Deephaven	25	0000CST			0	0			Thunderstorm Wind (65)
			Several hundred trees blown down. Estimated windspeed.						



# National Weather Service

## Storm Data and Unusual Weather Phenomena



June 1998

									June 1998
Location	Date	Time Local/ Standard	Path Length (Miles)	Path Width (Yards)	Killed	Number of Persons Injured	Estimated Damage Property Crops	Character of Storm	
<u>MINNESOTA, Central and South Central</u>									
Wright County									
Monticello	25	0000CST			0	0		Thunderstorm Wind (50)	
			Trees blown down. Estimated windspeed.						
Hennepin County									
Eden Prairie	25	0002CST			0	0		Thunderstorm Wind (70)	
Hennepin County									
Golden Vly	25	0002CST			0	0		Thunderstorm Wind (65)	
			Large tree blown onto house. Estimated windspeed.						
Blue Earth County									
Madison Lake	25	0010CST			0	0		Thunderstorm Wind (55)	
			Trees and power lines down. Estimated windspeed.						
Hennepin County									
Minneapolis	25	0010CST			0	0		Thunderstorm Wind (55)	
			200 trees blown down. Apartment building under construction blown down. Roof damage to 6 houses. Estimated windspeed.						
Dakota County									
Burnsville	25	0012CST			0	0		Hail(1.00)	
			Damage also reported in Apple Valley.						
Anoka County									
Andover	25	0020CST			0	0		Thunderstorm Wind (50)	
			Large branches down. Estimated windspeed.						
Ramsey County									
St Paul	25	0022CST			0	0		Thunderstorm Wind (60)	
			200 trees blown down. Estimated windspeed.						
Waseca County									
Waseca	25	0025CST			0	0		Hail(0.75)	
Goodhue County									
Cannon Falls	25	0028CST			0	0		Thunderstorm Wind (65)	
			150 trees blown down. Roof ripped off house. Estimated windspeed.						
Goodhue County									
Red Wing	25	0028CST			0	0		Thunderstorm Wind (70)	
			Roofs torn off houses. Mobile home destroyed. Businesses damaged. Many trees blown down throughout city. Estimated windspeed.						
Goodhue County									
2 NW Vasa	25	0028CST			0	0		Thunderstorm Wind (65)	
			Garage blown down. Roof ripped off house. Silo blown onto barn, killing five cows. Estimated windspeed.						
Ramsey County									
Vadnais Hgts	25	0030CST			0	0		Thunderstorm Wind (65)	
			More than 40 mobile homes damaged. 6 mobile homes destroyed. Trees blown on top of trailer home. Nursery damaged. Estimated windspeed.						
Washington County									
Oakdale	25	0030CST			0	0	1M	Thunderstorm Wind (70)	
			40 homes damaged. Some roofs ripped off homes. One house shifted off foundation. Estimated windspeed.						
Washington County									
Woodbury	25	0030CST			0	0		Thunderstorm Wind (52)	
Anoka County									
Circle Pines	25	0040CST			0	0		Thunderstorm Wind (65)	
			Roof damage. Shed and trees blown down. Estimated windspeed.						



# National Weather Service

## Storm Data and Unusual Weather Phenomena



June 1998

June 1998									
Location	Date	Time Local/ Standard	Path Length (Miles)	Path Width (Yards)	Killed	Number of Persons Injured	Property Damage	Crops	Character of Storm
<u>MINNESOTA, Central and South Central</u>									
Washington County									
Stillwater	25	0040CST			0	0			Thunderstorm Wind (55)
	Trees down. Estimated windspeed.								
Goodhue County									
Red Wing	25	0045CST			0	0			Thunderstorm Wind (55)
	Trees blown down. Estimated windspeed.								
Chisago County									
Lindstrom	25	0056CST			0	0			Thunderstorm Wind (50)
	Trees and power lines down. Estimated windspeed.								
Isanti County									
Cambridge	25	0135CST			0	0			Thunderstorm Wind (50)
	Power lines down. Estimated windspeed.								
Mille Lacs County									
12 NW Wahkon to 8 N Wahkon	25	1015CST 1023CST	6	25	0	0			Tornado (F0)
	Waterspout observed by law enforcement over Lake Mille Lacs								
Martin County									
2 S Wilbert	26	1100CST			0	0			Hail(1.75)
Martin County									
9 E Fairmont	26	1150CST			0	0			Hail(1.00)
Faribault County									
1 S Guckeen	26	1205CST			0	0			Hail(2.00)
Faribault County									
1 S Winnebago	26	1240CST			0	0			Hail(0.75)
Faribault County									
2 S Winnebago	26	1240CST			0	0			Hail(0.75)
Meeker County									
3 S Grove City	26	1534CST			0	0			Hail(0.75)
Meeker County									
4 NE Crow River	26	1610CST			0	0			Hail(1.00)
Stearns County									
5 SE Paynesville	26	1610CST			0	0			Hail(0.75)
Stearns County									
Paynesville	26	1610CST			0	0			Hail(0.88)
Freeborn County									
Alden	26	1700CST			0	0			Thunderstorm Wind (52)
	Trees down. Damage to sheds and barns.								
Steele County									
Owatonna	26	1745CST			0	0			Thunderstorm Wind (50)
	Roof ripped off mobile home. Estimated windspeed.								
Freeborn County									
.5 NW Oakland	26	1750CST	0.1	50	0	0			Tornado (F0)
	Barn down.								
Freeborn County									
.5 E Oakland	26	1753CST	0.1	50	0	0			Tornado (F0)
	Barn and silo down. Trees blown. Sixteen foot doors blown off cattle shed.								
Sherburne County									
Elk River	26	1805CST			0	0			Hail(1.50)
	Hailed for 10 minutes.								



# National Weather Service

## Storm Data and Unusual Weather Phenomena



June 1998

Location	Date	Time Local/ Standard	Path Length (Miles)	Path Width (Yards)	Number of Persons		Estimated Damage		Character of Storm
					Killed	Injured	Property	Crops	

### MINNESOTA, Central and South Central

Wright County Maple Lake	26	1805CST			0	0			Hail(1.75)
Anoka County Ramsey	26	1808CST			0	0			Hail(1.00)
Anoka County Ramsey	26	1810CST			0	0			Hail(1.75)
Anoka County Andover	26	1820CST			0	0			Hail(0.75)
Stearns County 5 N Kimball	26	1840CST			0	0			Hail(1.75)
Hennepin County Minneapolis	26	1900CST 2300CST			0	0			Flash Flood
Rapid rainfall of 1 to 3 inches resulted in street flooding. Traffic was halted on Interstate 35W at Diamond Lake Rd. Flooding also reported at Interstate 494 and Penn Ave.									
Sherburne County 4 NW Big Lake	26	1900CST			0	0			Hail(1.00)
Sibley County 2 S Gibbon	26	1907CST	0.1	25	0	0			Tornado (F0)
Le Sueur County 1 E Le Center	26	1912CST	0.5	50	0	0			Tornado (F0)
Sibley County 7 NW Winthrop	26	1915CST			0	0			Hail(1.75)
Wright County 5 W Monticello	26	1915CST			0	0			Hail(1.75)
Mcleod County 6 S Stewart	26	1917CST			0	0			Hail(1.75)
Le Sueur County New Prague	26	1940CST			0	0			Hail(1.75)
Le Sueur County New Prague	26	1940CST			0	0			Thunderstorm Wind (61)
Scott County New Prague	26	1940CST			0	0			Hail(1.75)
Scott County New Prague	26	1940CST			0	0			Thunderstorm Wind (61)
Sibley County 4 E Green Isle	26	2000CST			0	0			Thunderstorm Wind (55)
Trees down. Estimated windspeed.									
Stearns County Meire Grove	26	2000CST			1	0			Lightning
Man struck by lightning while working in his hay field. M51OU									
Ramsey County St Paul	26	2005CST			0	0			Thunderstorm Wind (65)
Power lines blown down. Estimated windspeed. 1,800 trees blown down in St. Paul by end of night.									
Yellow Medicine County 5 N Burr	26	2005CST			0	0			Hail(0.75)



# National Weather Service

## Storm Data and Unusual Weather Phenomena



June 1998

June 1998									
Location	Date	Time Local/ Standard	Path Length (Miles)	Path Width (Yards)	Number of Persons		Estimated Damage	Character of Storm	
					Killed	Injured	Property	Crops	
<u>MINNESOTA, Central and South Central</u>									
Dakota County Farmington	26	2010CST			0	0			Thunderstorm Wind (70)
Rice County 3.5 W Dundas	26	2012CST			0	0			Hail(0.75)
Dakota County 5 E Farmington	26	2015CST 2300CST			0	0			Flash Flood
		Water covered numerous roadways in county.							
Rice County 3 NW Faribault	26	2015CST			0	0			Thunderstorm Wind (60)
		Trees and small bldg blown down near Roberds Lake. Estimated windspeed.							
Dakota County 3 W Waterford	26	2020CST			0	0			Hail(1.00)
Rice County Faribault	26	2020CST			0	0			Hail(1.00)
Rice County Faribault	26	2020CST			0	0			Thunderstorm Wind (52)
Rice County 3.5 S Dundas	26	2025CST			0	0			Hail(1.75)
Rice County Faribault	26	2025CST			0	0			Hail(1.75)
		Windshields broken.							
McLeod County Lester Prairie	26	2029CST			0	0			Thunderstorm Wind (50)
		Tree blown down. Estimated windspeed.							
Douglas County Carlos	26	2030CST			0	0			Hail(0.75)
Rice County 2.5 S Northfield	26	2031CST			0	0			Hail(1.25)
Douglas County Alexandria	26	2035CST			0	0			Thunderstorm Wind (55)
		40 trees blown down at golf course. Estimated windspeed.							
Lac Qui Parle County 11 W Madison	26	2035CST			0	0			Hail(0.75)
Swift County 4 SE Appleton	26	2035CST			0	0			Hail(0.75)
Pope County 7 SE Sedan	26	2040CST			0	0			Thunderstorm Wind (50)
		Trees down. Estimated windspeed.							
Stearns County Brooten	26	2040CST			0	0			Thunderstorm Wind (55)
		Trees down. Estimated windspeed.							
Yellow Medicine County Canby	26	2040CST			0	0			Thunderstorm Wind (55)
		Trees and power lines down. Estimated windspeed.							
Kandiyohi County Sunburg	26	2050CST			0	0			Thunderstorm Wind (55)
		Trees down. Estimated windspeed.							





# National Weather Service

## Storm Data and Unusual Weather Phenomena



June 1998

June 1998									
Location	Date	Time Local/ Standard	Path Length (Miles)	Path Width (Yards)	Number of Persons		Estimated Damage		Character of Storm
					Killed	Injured	Property	Crops	
<b><u>MINNESOTA, Central and South Central</u></b>									
<b>Todd County</b>									
3 SW Bertha	26	2050CST			0	0			Thunderstorm Wind (50)
Garage and grain bins destroyed. Estimated windspeed.									
<b>Todd County</b>									
2 SW Bertha	26	2050CST			0	0			Thunderstorm Wind (50)
Roof damage to silo and milking barn. Estimated windspeed.									
<b>Stearns County</b>									
2.5 SE Holdingford	26	2052CST			0	0			Hail(0.75)
<b>Goodhue County</b>									
2 NW Kenyon	26	2100CST			0	0			Thunderstorm Wind (55)
Trees down. Estimated windspeed. Also received 5 inches of rain.									
<b>Goodhue County</b>									
Zumbrota	26	2100CST			0	0			Hail(1.75)
<b>Rice County</b>									
Northfield	26 27	2100CST 0200CST			0	0			Flash Flood
Between 4 and 6 inches of rain resulted in flash flooding in the Northfield area. Portion of county road 78 washed out resulting in train derailment. Highway 19 bridge collapsed under the weight of a semi-truck and trailer. Decker Avenue along Spring Creek washed out between 90th and 100th streets. Extensive flood damage to roadways around Dennison									
<b>Todd County</b>									
Long Prairie	26	2100CST			0	0			Thunderstorm Wind (50)
Large branches down. Estimated windspeed.									
<b>Stearns County</b>									
Albany	26	2101CST 2102CST			0	0			Thunderstorm Wind (61)
<b>Rice County</b>									
Northfield	26	2102CST			0	0			Thunderstorm Wind (55)
Measured at the Northfield Safety Center.									
<b>Dakota County</b>									
2 NW Castle Rock	26	2110CST			0	0			Thunderstorm Wind (60)
Roof torn off grain bin. Trees blown down. Estimated windspeed.									
<b>Chippewa County</b>									
1 W Maynard	26	2115CST			0	0			Thunderstorm Wind (55)
Large branches down. Estimated windspeed.									
<b>Goodhue County</b>									
Cannon Falls	26 27	2115CST 0300CST			2	0	1.5M		Flash Flood
Slow moving thunderstorms dumped 4 to 6 inches of rain in threes hours over portions of Goodhue county. Zumbrota received 6.46", Sogn 4.38", Wanamingo 5.49". Flash flooding resulted in many road closures. The Shades of Sherwood Campground was evacuated where some campers were washed into the Zumbro River. Several people were rescued when they were carried into the river along with their camper. Over 100 campers were destroyed. Two deaths occurred along the Zumbro River between Wanamingo and Zumbrota. An elderly couple evacuating the campground drove into a washed out section of road, or the road gave way under the weight of their vehicle. It is presumed the couple escaped from their vehicle only to drown in the river. 400 residents of Cannon Falls were evacuated. Flooding also occurred upstream in Sogn where several homes received major flood damage. Damage estimate for entire county. F56VE, M63VE									



# National Weather Service

## Storm Data and Unusual Weather Phenomena



June 1998

Location	Date	Time Local/ Standard	Path Length (Miles)	Path Width (Yards)	Number of Persons		Estimated Damage		Character of Storm
					Killed	Injured	Property	Crops	
<b><u>MINNESOTA, Central and South Central</u></b>									
<b>Redwood County</b>									
1 E Belview	26	2120CST			0	0			Hail(0.75)
<b>Ramsey County</b>									
3 N St Paul	26	2125CST			0	0			Thunderstorm Wind (50)
			Large tree limbs blown down. Estimated windspeed.						
<b>Anoka County</b>									
Coon Rapids	26	2130CST			0	0			Thunderstorm Wind (65)
			Trees uprooted. Roof damage.						
<b>Meeker County</b>									
4 SW Watkins	26	2130CST			0	0			Hail(0.75)
<b>Rice County</b>									
4 W Shieldsville	26	2130CST			0	0			Thunderstorm Wind (55)
			Trees down. Estimated windspeed.						
<b>Stearns County</b>									
St Cloud	26	2130CST			0	0			Thunderstorm Wind (69)
			Measured at St Cloud State University Meteorology department. Power lines and trees down throughout eastern two thirds of Stearns county.						
<b>Benton County</b>									
Sauk Rapids	26	2134CST			0	0	40K		Thunderstorm Wind (70)
			60 large trees damaged. Few businesses and homes damaged from wind or falling trees.						
<b>Stearns County</b>									
St Cloud Muni Arpt	26	2141CST 2153CST			0	0			Thunderstorm Wind (67)
			Powers lines down in St. Cloud.						
<b>Renville County</b>									
2 W Renville	26	2145CST			0	0			Hail(0.75)
<b>Sherburne County</b>									
Big Lake	26	2150CST			0	0			Thunderstorm Wind (61)
			Power lines down.						
<b>Rice County</b>									
3.5 W Dundas	26	2152CST			0	0			Hail(0.75)
<b>Wright County</b>									
Maple Lake	26	2155CST			0	0			Thunderstorm Wind (56)
<b>Anoka County</b>									
Ramsey	26	2215CST			0	0			Thunderstorm Wind (61)
<b>Hennepin County</b>									
Rogers	26	2215CST			0	0			Funnel Cloud
<b>Renville County</b>									
Olivia	26	2215CST			0	0			Hail(0.75)
<b>Sherburne County</b>									
Big Lake	26	2224CST			0	0			Thunderstorm Wind (61)
<b>Wright County</b>									
Maple Lake	26	2225CST			0	0			Thunderstorm Wind (56)
<b>McLeod County</b>									
Hutchinson	26	2228CST			0	0			Thunderstorm Wind (50)
			Trees down.						
<b>Isanti County</b>									
Cambridge	26	2230CST			0	0			Thunderstorm Wind (61)



# National Weather Service

## Storm Data and Unusual Weather Phenomena



June 1998

Location	Date	Time Local/ Standard	Path Length (Miles)	Path Width (Yards)	Number of Persons Killed	Number of Persons Injured	Estimated Damage Property	Estimated Damage Crops	Character of Storm
<b><u>MINNESOTA, Central and South Central</u></b>									
<b>Mcleod County</b>									
<b>Brownton</b>	26	2231CST			0	0			Thunderstorm Wind (50)
			Large branches blown down. Estimated windspeed.						
<b>Anoka County</b>									
<b>Anoka</b>	26	2235CST			0	0			Thunderstorm Wind (50)
			Trees blown down. Estimated windspeed.						
<b>Mcleod County</b>									
<b>Hutchinson</b>	26	2238CST			0	0			Thunderstorm Wind (50)
			Large branches blown down. Estimated windspeed.						
<b>Hennepin County</b>									
<b>Eden Prairie</b>	26	2243CST			0	0			Thunderstorm Wind (56)
<b>Anoka County</b>									
<b>Lino Lakes</b>	26	2245CST			0	0			Thunderstorm Wind (65)
			20 homes sustained roof and structural damage. Trees blown down. Estimated windspeed.						
<b>Goodhue County</b>									
<b>Goodhue</b>	26	2245CST			0	0			Hail(0.75)
			Large trees and sign also blown down. Heavy rain flooded basements.						
<b>Washington County</b>									
<b>Scandia</b>	26	2250CST			0	0			Thunderstorm Wind (55)
			Large trees blown down. Other damage reported in Forest Lake. Estimated windspeed.						
<b>Washington County</b>									
<b>Stillwater</b>	26	2250CST			0	0	1M		Thunderstorm Wind (80)
			Marina damaged. Pier broke lose from shore with 25 boats, some still occupied. Two other piers heavily damaged. Wind damage also reported in Oak Park Heights, Lake Elmo and Oakdale. Large tree limbs and power lines down.						
<b>Hennepin County</b>									
<b>Minneapolis/St Paul</b>	26	2255CST			0	0			Thunderstorm Wind (52)
			Trees down around Lake Nokomis.						
<b>Mcleod County</b>									
<b>Glencoe</b>	26	2300CST			0	0			Thunderstorm Wind (50)
			Large branch blown down. Estimated windspeed.						
<b>Ramsey County</b>									
<b>St Paul</b>	26	2303CST			0	0			Thunderstorm Wind (55)
			Trees down at Randolph and Hamilton. Estimated windspeed.						
<b>Scott County</b>									
<b>1 S Belle Plaine</b>	26	2307CST 2309CST			0	0			Hail(0.88)
<b>Washington County</b>									
<b>Cottage Grove</b>	26	2307CST			0	0			Thunderstorm Wind (55)
			Large branches down. Estimated windspeed.						
<b>MNZ078</b>									
		<b>Goodhue</b>							
	27	0300CST 2100CST			0	0			Flood
			Very heavy rainfall the previous 4 days caused the Cannon River to overflow its banks. The sewage treatment plant in Welch flooded. Roads were closed in Welch, and the Hidden Valley Campground was evacuated. Some locations in Goodhue county received over 11 inches of rainfall the week of June 22 through June 28 with the bulk of the rain falling between June 24 and June 28. One location just east of Zumbrota recorded 11.54". The Cannon River at Welch rose to 15 feet, exceeding the flood of record by 1 foot. The previous record of 14.01 feet occurred in the spring of 1965. By the morning of 6/27, water filled numerous city parks in Cannon Falls and caused washed out roads including portions of highway 19. One home flooded along highway 19. Homes and businesses flooded along highway 20. Hundreds of people were evacuated near the Cannon River in Cannon Falls. The						



# National Weather Service

## Storm Data and Unusual Weather Phenomena



June 1998

Location	Date	Time Local/ Standard	Path Length (Miles)	Path Width (Yards)	Number of Persons Killed Injured		Estimated Damage Property Crops	Character of Storm
----------	------	----------------------------	---------------------------	--------------------------	--	--	---------------------------------------	--------------------

### MINNESOTA, Central and South Central

Cannon River crested around noon on 6/27. Damage estimate to homes and businesses in Cannon Falls is 700 K.

<b>Martin County</b>								
Welcome	27	1512CST			0	0		Hail(0.75)
<b>Martin County</b>								
Fairmont	27	1520CST			0	0		Hail(1.00)
<b>Martin County</b>								
Ormsby	27	1603CST			0	0		Hail(1.00)
<b>Watonwan County</b>								
Ormsby	27	1606CST			0	0		Hail(1.00)
<b>Brown County</b>								
4 E Springfield	27	1618CST			0	0		Hail(1.00)
<b>Martin County</b>								
1.5 W Granada to Granada	27	1636CST 1638CST	1.5	50	0	0		Tornado (F0)
<b>Martin County</b>								
Fairmont	27	1637CST			0	0		Thunderstorm Wind (61)
<b>Martin County</b>								
1.5 E Granada to 4 E Granada	27	1642CST 1646CST	2.5	50	0	0		Tornado (F0)
Tree damage. Carried one half mile into Faribault co to just south of Huntley.								
<b>Faribault County</b>								
4 S Huntley	27	1646CST	0.5	50	0	0		Tornado (F0)
<b>Faribault County</b>								
5 S Delavan to 5 SSE Delavan	27	1651CST 1652CST	1	50	0	0		Tornado (F1)
Barn and shed damage. Trees down.								
<b>Faribault County</b>								
3 NE Brush Creek	27	1655CST			0	0		Thunderstorm Wind (55)
Trees down around Walnut Lake. Estimated windspeed.								
<b>Waseca County</b>								
Matawan	27	1655CST			0	0		Hail(0.75)
<b>Waseca County</b>								
Waldorf	27	1655CST			0	0		Hail(1.00)
<b>Faribault County</b>								
Wells	27	1658CST			0	0		Funnel Cloud
Funnel clouds also sighted south of Easton.								
<b>Faribault County</b>								
Walters	27	1700CST			0	0		Thunderstorm Wind (60)
City garage blown down. Trees and power lines down. Also reported in Kiester. Estimated windspeed.								
<b>Sibley County</b>								
Gaylord	27	1700CST			0	0		Funnel Cloud
<b>Nicollet County</b>								
5 NW Nicollet to 2 NW Nicollet	27	1703CST 1710CST	3	50	0	0		Tornado (F0)
Remained near/over Swan Lake.								
<b>Freeborn County</b>								
Albert Lea	27	1709CST			0	0		Hail(2.75)
<b>Freeborn County</b>								
Hartland	27	1715CST			0	0		Thunderstorm Wind (60)
Grain bins blown down. Estimated windspeed.								



# National Weather Service

## Storm Data and Unusual Weather Phenomena



June 1998

Location	Date	Time Local/ Standard	Path Length (Miles)	Path Width (Yards)	Number of Persons Killed	Number of Persons Injured	Estimated Damage Property	Estimated Damage Crops	Character of Storm
<b><u>MINNESOTA, Central and South Central</u></b>									
<b>Steele County</b>									
2 S Owatonna	27	1715CST			0	0			Thunderstorm Wind (58)
<b>Steele County</b>									
Owatonna Arpt	27	1715CST			0	0			Thunderstorm Wind (54)
									Mobile home damaged.
<b>Waseca County</b>									
New Richland	27	1720CST			0	0			Thunderstorm Wind (61)
									Trees and power lines down on southwest side of city. Grain bin lost its top.
<b>Freeborn County</b>									
3 W Emmons	27	1725CST			0	0			Thunderstorm Wind (60)
									Barns blown down. Estimated windspeed.
<b>Rice County</b>									
Lonsdale	27	1725CST			0	0			Thunderstorm Wind (55)
									Shed blown down. Estimated windspeed.
<b>Waseca County</b>									
New Richland	27	1725CST			0	0			Hail(0.75)
<b>Rice County</b>									
Webster	27	1727CST	0.1	25	0	0			Tornado (F0)
									Remained in open field. Grain bin blown into woods 2 SE of Webster.
<b>Waseca County</b>									
Waseca	27	1729CST			0	0			Thunderstorm Wind (56)
<b>Freeborn County</b>									
3 E Hayward to 4 E Hayward	27	1730CST	1	50	0	0			Tornado (F1)
									Barn destroyed. Large power poles knocked down.
<b>Freeborn County</b>									
Albert Lea	27	1735CST			0	0			Hail(3.25)
									Considerable hail damage to county vehicles. Windows and skylights broken at county buildings and schools.
<b>Freeborn County</b>									
Albert Lea	27	1735CST			0	0			Thunderstorm Wind (55)
									Portion of Ventura Foods roof destroyed. Trees blown down. Estimated windspeed.
<b>Steele County</b>									
Ellendale	27	1740CST			0	0			Thunderstorm Wind (61)
									Trees and power lines down.
<b>Rice County</b>									
2 NW Shieldsville	27	1749CST			0	0			Funnel Cloud
									Sighted over Shields Lake.
<b>Freeborn County</b>									
(Ael)Albert Lea Arpt	27	1755CST			0	0			Thunderstorm Wind (50)
<b>Freeborn County</b>									
3 SE Newry	27	1758CST			0	0			Thunderstorm Wind (60)
									Barn blown down. Estimated windspeed.
<b>Rice County</b>									
Dundas	27	1800CST			0	0			Thunderstorm Wind (55)
									Barn blown down along Co Rd 1. Estimated windspeed.
<b>Le Sueur County</b>									
Kilkenny	27	1801CST			0	0			Funnel Cloud



# National Weather Service

## Storm Data and Unusual Weather Phenomena



June 1998

Location	Date	Time Local/ Standard	Path Length (Miles)	Path Width (Yards)	Killed	Number of Persons Injured	Estimated Damage Property	Crops	Character of Storm
----------	------	----------------------------	---------------------------	--------------------------	--------	---------------------------------	---------------------------------	-------	--------------------

### MINNESOTA, Central and South Central

<b>Rice County</b>									
Nerstrand	27	1802CST	0.1	25	0	0			Tornado (F0)
<b>Goodhue County</b>									
1 W Cannon Falls	27	1805CST	0.5	50	0	0			Tornado (F0)
		Remained near Lake Byllesby.							
<b>Goodhue County</b>									
4 SW Kenyon	27	1805CST	0.1	50	0	0			Tornado (F0)
<b>Goodhue County</b>									
2 S Wanamingo	27	1808CST	0.1	50	0	0			Tornado (F0)
<b>Goodhue County</b>									
4 SE Zumbrota	27	1819CST	0.1	50	0	0			Tornado (F0)
<b>Stevens County</b>									
Morris	27	2016CST			0	0			Thunderstorm Wind (50)
<b>MNZ069</b>	<b>Scott</b>								
	28	0700CST			0	0			Flood
	29	0700CST							

Repeated heavy rainfall resulted in severe flooding of Sand Creek in the town of Jordan. Described as the worst flooding since 1963. 38,000 sandbags were needed. 2 bridges were washed out. Because of the rapid response of volunteers and emergency personnel in erecting a sandbag wall, flooding damage was minimized. The Jordan NWS cooperative observer reported 6.80 inches of rain between the 24th and the 27th with over 4 inches falling on the 26th.

<b>Meeker County</b>									
4 W Kingston	30	1415CST	0.5	25	0	0			Tornado (F0)
		Observed by law enforcement.							

### WISCONSIN, West

<b>Rusk County</b>									
Hawkins	12	1550CST			0	0			Hail(0.88)
<b>St. Croix County</b>									
1 E Roberts	15	1848CST			0	0			Hail(1.75)
		Quarter to golfball size hail pummeled Badlands Golf course							
<b>St. Croix County</b>									
Hudson	15	1910CST			0	0			Hail(1.75)
<b>Barron County</b>									
Haugen	15	1925CST			0	0			Thunderstorm Wind (50)
		Trees down. Estimated windspeed.							
<b>Pepin County</b>									
Arkansaw	25	0050CST			0	0	200K		Thunderstorm Wind (60)
		Barn blown down trapping 57 cows. Garage shifted off foundation. Windows blown out of farmhouse.							
<b>Pierce County</b>									
2 NE Diamond Bluff	25	0100CST			0	0	75K		Thunderstorm Wind (61)
		Damage estimate for entire county.							
<b>Pierce County</b>									
2.5 E Esdaile to 2 NE Esdaile	25	0110CST			0	0			Thunderstorm Wind (60)
		Barn collapsed killing eight cows. Estimated windspeed							



# National Weather Service

## Storm Data and Unusual Weather Phenomena



June 1998

Location	Date	Time Local/ Standard	Path Length (Miles)	Path Width (Yards)	Number of Persons Killed	Number of Persons Injured	Estimated Damage Property	Estimated Damage Crops	Character of Storm
<b><u>WISCONSIN, West</u></b>									
<b>Pierce County</b>									
15 SE Ellsworth	25	0120CST			0	0			Thunderstorm Wind (60)
			Large trees blown down. Windows blown out. Estimated windspeed.						
<b>St. Croix County</b>									
Glenwood City	25	0126CST			0	0			Thunderstorm Wind (55)
			Trees and power lines down. Estimated windspeed.						
<b>Barron County</b>									
Turtle Lake	25	0128CST			0	0			Thunderstorm Wind (55)
			Trees and power lines down. Large hail also reported. Estimated windspeed.						
<b>Dunn County</b>									
Colfax	25	0130CST			0	0			Thunderstorm Wind (50)
			Trees blown down. Estimated windspeed.						
<b>Chippewa County</b>									
Eau Claire	25	0136CST			0	0			Thunderstorm Wind (52)
<b>Chippewa County</b>									
Jim Falls	25	0136CST			0	0			Thunderstorm Wind (60)
			Campers and trees blown over. Estimated windspeed.						
<b>Barron County</b>									
Chetek	25	0140CST			0	0			Thunderstorm Wind (55)
			Large trees blown down. Shed destroyed. Boats flipped onto docks.						
<b>Dunn County</b>									
4 N Menomonie	25	0145CST			0	0			Thunderstorm Wind (55)
			Trees blown down. Estimated windspeed.						
<b>Eau Claire County</b>									
Eau Claire	25	0145CST			0	0			Thunderstorm Wind (52)
			Trees and power lines down. Estimated windspeed.						
<b>Chippewa County</b>									
Eau Claire	25	0151CST			0	0			Thunderstorm Wind (50)
			Airport hangar destroyed at Chippewa Valley Airport.						
<b>Chippewa County</b>									
4 N Cadott	25	0200CST			0	0	40K		Thunderstorm Wind (60)
			Pop-up campers destroyed at local music festival.						
<b>Chippewa County</b>									
Stanley	25	0202CST			0	0			Thunderstorm Wind (55)
			Farm damaged. Estimated windspeed.						
<b>Rusk County</b>									
Conrath	25	0204CST			0	0			Thunderstorm Wind (55)
			Large trees blown down. Estimated windspeed.						
<b>Eau Claire County</b>									
Fall Creek	25	0210CST			0	0			Thunderstorm Wind (55)
			Trees blown down. Estimated windspeed.						
<b>St. Croix County</b>									
Hudson	26	2316CST			0	0			Thunderstorm Wind (56)
<b>Eau Claire County</b>									
Eau Claire	27	2145CST			0	0			Thunderstorm Wind (50)
			Branches down. Estimated windspeed.						